Camera 220E

Document Camera
User's Guide

DUKANE

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Chapter 1 Precautions

Always follow these safety instructions when setting up and using the Digital Presenter:

1. Do not place the Digital Presenter on an unstable trolley, stand or table.
2. Do not use the Digital Presenter near water or source of heat.
3. Use attachments only as recommended.
4. Use the type of power source indicated on the Digital Presenter. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
5. Place the Digital Presenter where it can be easily unplugged.
6. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire.
   - Ensure the plug is free of dust before inserting it into a socket.
   - Ensure that the plug is inserted into the socket securely.
7. Do not overload wall sockets, extensions leads or multi-way plug boards as this may cause fire or electric shock.
8. Do not place the Digital Presenter where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
9. Unplug the projector form the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
10. Do not block the slots and openings in the case. They provide ventilation and prevent the Digital Presenter from overheating. Do not place the Digital Presenter on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
11. Never push objects of any kind through slots. Never allow liquid of any kind to spill into the Digital Presenter.
12. Except as specifically instructed in this User's Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
13. Unplug the Digital Presenter during thunderstorms or if it is not going to be used for an extended period, do not place the Digital Presenter or remote control on top of heat-emitting equipment or heated objects such as a car and etc.
14. In the following situations, unplug the Digital Presenter from the wall outlet and refer servicing to licensed service personnel:
    - If the power cable or plug becomes damaged or frayed.
    - If liquid is spilled into it or the Digital Presenter has been exposed to rain or water.

■ Safety Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

This Digital Presenter has a 2 wires AC line Plug. This is a safety feature to ensure that the plug will fit into the power outlet. Do not try to defeat this safety feature.
If the Digital Presenter will not be used for an extended time, unplug it from the power outlet.

<table>
<tr><td colspan="4"> CAUTION
RISK OF ELECTRIC SHOCK </td></tr>
<tr><td colspan="4">Caution: To reduce the risk of electric shock. Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service Personnel.</td></tr>
<tr><td> </td><td>This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.</td><td> </td><td>This symbol indicates that there are important operating and maintenance instructions in this User’s Manual with this unit.</td></tr>
</table>

■ FCC Warning

This Digital Presenter has been certified to comply with the limits for a Class A computing device, pursuant to Subpart J of Part 15 of FCC Rules. These limits are designed to provide reasonable protection against a harmful interference when the equipment is operated in a commercial environment.

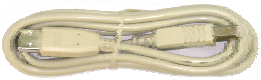
■ EN55022 (CE Radiation) Warning

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. In a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, meeting room or auditorium.

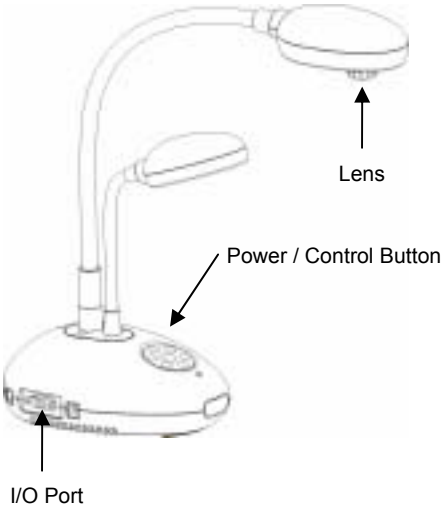
Chapter 2 Package Content

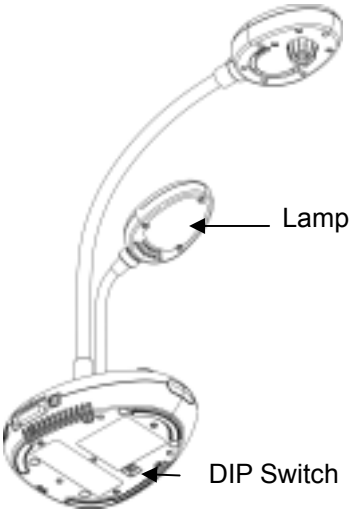
Please make sure the package comes with the following items when you unpack:

Camera 220C	User's Manual	CD
Power Cable	**USB Cable**	**C-Video Cable**
		
VGA Cable	**DVI Adapter**	**Remote Controller**

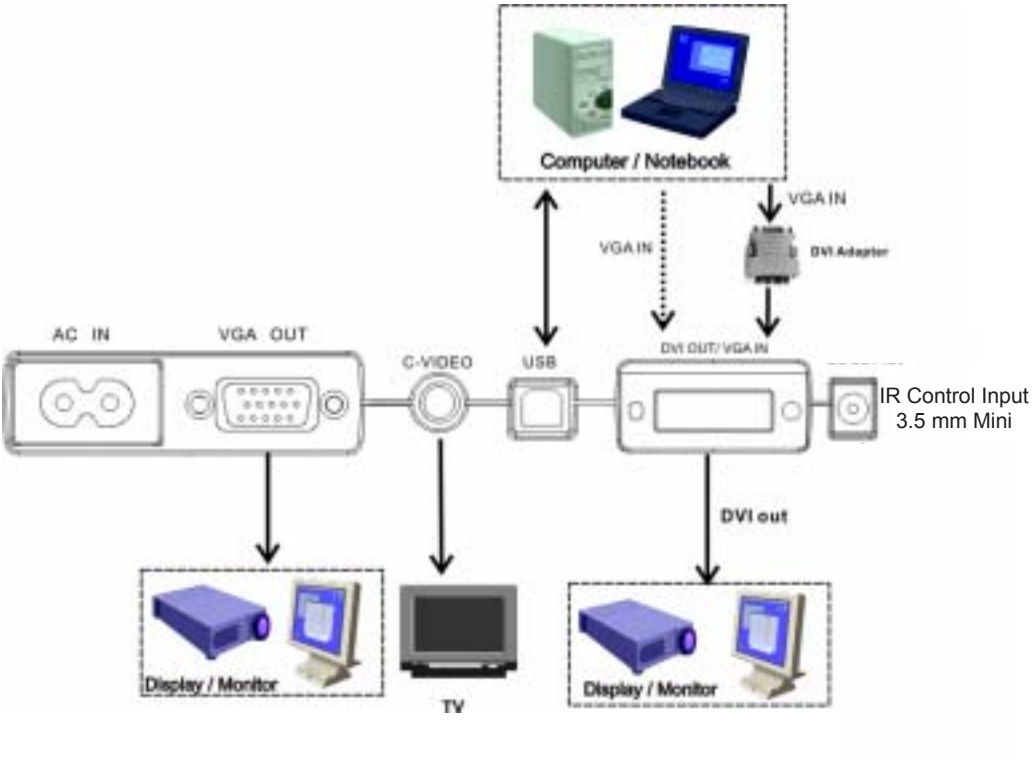
Chapter 3 Product Overview

3.1 Product Introduction

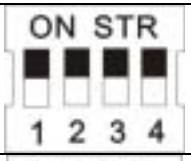
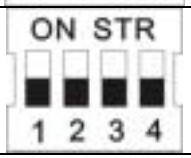




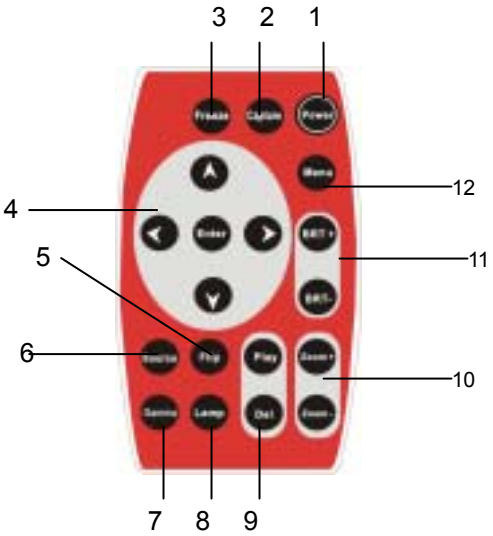
3.2 I/O Connection



3.3 DIP Switch

	SW1	SW2	SW3	SW4	Diagram
	Auto Exposure	C-Video Output	Video Signal Output	Resolution	
ON	AE ON	Video ON	PAL	SVGA	
OFF (Default Setting)	AE OFF	Video OFF	NTSC	XGA	

3.4 Infrared Remote Control



1. **Power:**
   Turn on/ off.
2. **Capture:**
   Capture the image.
3. **Freeze:**
   Freeze the image.
4. **Arrows:**
   You may press the 4 hot keys of Up/Down/Right/Left to go to the desired function item then press the Enter key to take effect.
5. **Flip:**
   Rotate the image by 180 degrees.
6. **Source:**
   Switch between different signal sources.
7. **Gamma:**
   Different color contrast modes.
8. **Lamp:**
   Turn on/ off Lamp.
9. **Play & Del:**
   Play press, you can recall the saved images in the flash memory of your Digital Presenter. Press Del if you would like to discard the saved image.
10. **Zoom +/-:**
    Make the image larger & smaller.
11. **BRT+/-:**
    Press the keys to make the image brighter or darker.
12. **Menu:**
    Click on Menu, you may adjust all the functions on the screen.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCRDING TO THE INSTRUCTIONS.

3.5 IR Remote Control via 3.5 mm Mini Connector

The IR commands from a protocol converter can be sent directly to an IR emitter located behind the dark window on the front of the camera. This permits the camera to be controlled as part of a system without the necessity of attaching external IR emitters. The 3.5 mm mini connector on the body, “IR Control Input,” is connected internally to an IR emitter located near the detector. This detector can receive the IR signals from the emitter. A visible red LED is also located behind the camera window and blinks when the IR emitter is operating

Chapter 4 How to use it

This chapter describes the basic and advanced functions of the Digital Presenter, how to use the OSD (On Screen Display) menu.

4.1 Getting Started

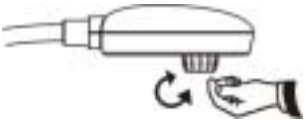
4.1.1 Turn on the Digital Presenter.

- Option 1: Press

button.
- Option 2: Press button of remote controller.

4.1.2 Lens focus

- Turn the lens to optimize the focus



4.1.3 Zoom in / Out

- Press the control button

4.1.4 Switch source

- Press

to Choose signal source between Camera 220E or PC.

4.1.5 Photo/Text:

➢ Press to Select the text or photo mode.

4.1.6 Enter AWB (Auto White Balance)

➢ press to set the auto white balance.

4.1.7 Capture Image & Review of captured images

➢ How to capture an image

Method 1：Press on the remote to capture image that you would like to save.

Method 2：Follow the steps using the pad buttons on the Camera.

2.1 First, press to go to the OSD (On Screen Display).

2.2 Second, press^ v select the "Storage" icon, and press "Enter AWB" button

Then select “**Capture**”, and press to capture image that you would like to save.

➢ Review of capture images:

Method 1：Operation from Camera pad buttons.

1.1 First, press

button to go to OSD interface.

1.2 Second, press **^ v** to select the "storage" icon, and press

Then select “**Playback**”, and press

, so you can see all captured thumbnail images on the screen.

1.3 You can press

button to select the image which you want to magnify. (Enlarge to full screen)

Then press

, the image will appear full screen.

Method 2: Using the Remote Control:

2.1 First please press the

button to see all thumbnail images that you had captured.

Then, press button to select image which you want to enlarge and press

, the image will now be showen full screen.

Method 3：Use the remote to operate the OSD interface operation.

3.1 Press the

button to go into the OSD interface.

3.2 Press **^ v** to select the "Storage" icon and press .

Then select "**Playback**", and press , so you can see all captured thumbnail images on the screen.

3.3 Then, press button to select the thumbnail image which you want to magnify and press , the image will show full screen.

4.2 Showing the OSD (On Screen Display) Menu

- Option 1: Press button to show the OSD Menu
- Option 2: Press button of remote control.

4.3 Select function:

- Option 1: Press the ^ v< > to search functions then press the Enter key to enable your selection.
- Option 2(On remote control): Press ^ v< > to navigate functions then press the Enter key to invoke your selection.

4.4 OSD Menu Introduction

The Main Menu contains five icons, The functions are shown in the following table.

Setting

Display

Source

Storage

Exit

➢ VGA Mode (Computer Image)

Layer 1	Layer 2	Layer 3	Function
Setting	**Lamp**	On / Off / Exit	Select Lamp On or Off.
	Night view	On/Off	Select Night view function On or Off.
	Language	English, Deutsch, Francais, Italiano, Espanol, Русский, 中繁, 中簡, Exit	Select a preferred language on the menu.
	Output Format	XGA 75Hz, XGA 60Hx, SVGA 75Hz, SVGA60 Hz	Select a suitable output format.
	Factory Reset	Enter/Exit	Reset all the values to the factory default.
	Exit		Exit this menu.

Display	**Brightness**	0-46 (for PAL) 0-40 (for NTSC)	Brightness adjustment
	Zoom	Digital Zoom (100% to 1600%) ◁ ▭ ▷	Adjust Zoom 100% ~ 1600%.
	Gamma	Photo / Text	Select Photo/Text Mode.
	Image	Normal / Gray / Film	Select Normal/Gray/Film Mode.
	Flip	On/Off	Adjust the image up and down by 180°.
	Freeze	On/Off	Use Freeze to retain the image on the screen.
	Exit		Exit this menu.
Source	**Presenter**		Select images of Presenter or VGA Input.
	VGA In		
Storage	**Capture**		Capture the image of Presenter.
	Playback		Present the captured image.
	Delete		Delete the captured image.
	Delete All	Delete All	Delete all images.
		Enter/ Exit	
	Format	Memory Format	Memory Format
		Enter/ Exit	
	Exit		Exit this menu.
			Exit menu.

VIDEO Mode (For NTSC, lower resolution)

Layer 1	Layer 2	Layer 3	Function
Display	**Brightness**	0-46 (for PAL) 0-40 (for NTSC)	Brightness adjustment
	Gamma	Photo/Text	Select Photo/Text Mode.
	Image	Normal/Gray	Select Normal/Gray Mode.
	Freeze	On/Off	Use Freeze to retain the image on the screen.
	Exit		Exit this menu.
Setting	**Lamp**	On/Off	Turn On/Off lamp
	Advance	Full Range On/off Night view On /off Exit	Switch Full range on/off and night view on/off
	Language	English /中繁/中簡/Exit	Select a preferred language on the menu.
	Factory Reset	Enter / Exit	Reset all the values to the factory default.
	Exit		Exit this menu.
			Exit menu.

Camera as Switch

The DVI Adapter connects the DVI output to an input for a computer (VGA). When this input is used, the “SOURCE” button or menu command will switch the output between the “CAMERA IMAGE” and the “COMPUTER” image (VGA) on the DVI adapter.

When camera is “OFF” the computer VGA signal from the “DVI Port” adapter will pass through the camera to the “VGA Out” port. Thus the camera can be in a path to a projector and will let the signal pass through. If the camera is turned on the VGA pass through remains until the “Source” button is pressed. The camera image then becomes the output.

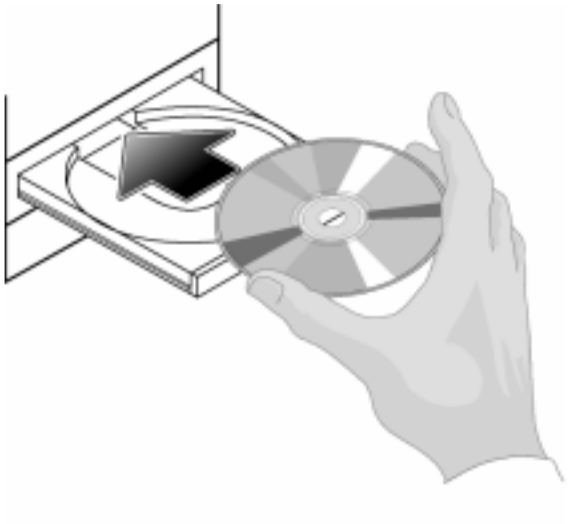
Note: The camera must be plugged in to have this pass through feature.

Chapter 5

Using the Camera USB with a Computer

Installation

1. Insert the software CD in your computer's CD-ROM.

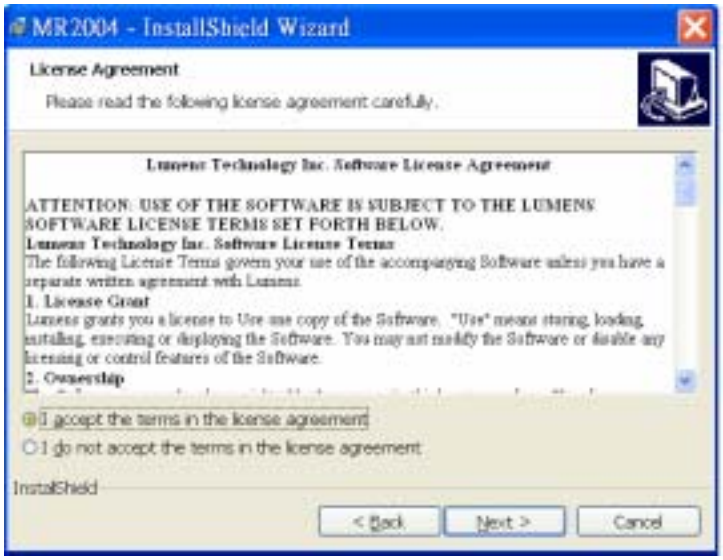


2. Connect the Camera and PC with USB Cable . Follow instructions for driver download.
3. Before you install MR2004, please be sure your system meets these requirements.
   - Operation System • Windows XP • Windows 2000 • ME • 98 • 98SE
   - CPU • Intel Pentium II 350MHz over and above
   - CD ROM or DVD ROM
   - 64MB RAM
   - Minimum 40MB HD space

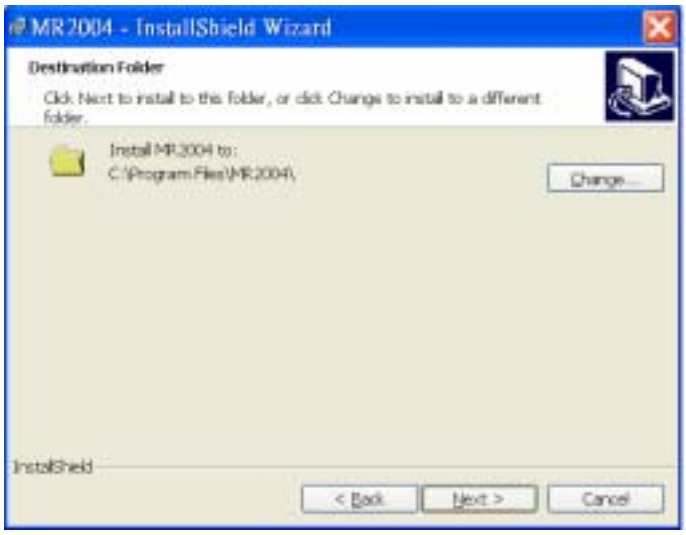
4. The "Auto run" program will be shown automatically, if you would like to install MR2004, please press **Install MR2004**

5. The installation wizard is shown, please press Next to go next.

6. While the License Agreement picture is shown, select 『**I accept the terms in the license agreement** 』 and press Next to go next.


MR2004 - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
Lumens Technology Inc. Software License Agreement
ATTENTION: USE OF THE SOFTWARE IS SUBJECT TO THE LUMENS SOFTWARE LICENSE TERMS SET FORTH BELOW.
Lumens Technology Inc. Software License Terms
The following License Terms govern your use of the accompanying Software unless you have a separate written agreement with Lumens.
1. License Grant
Lumens grants you a license to Use one copy of the Software. "Use" means storing, loading, installing, executing or displaying the Software. You may not modify the Software or disable any licensing or control features of the Software.
2. Ownership
I accept the terms in the license agreement
I do not accept the terms in the license agreement
InstallShield
< Back
Next >
Cancel

7. Click Next to install from the default folder or click Change to specify a difference.



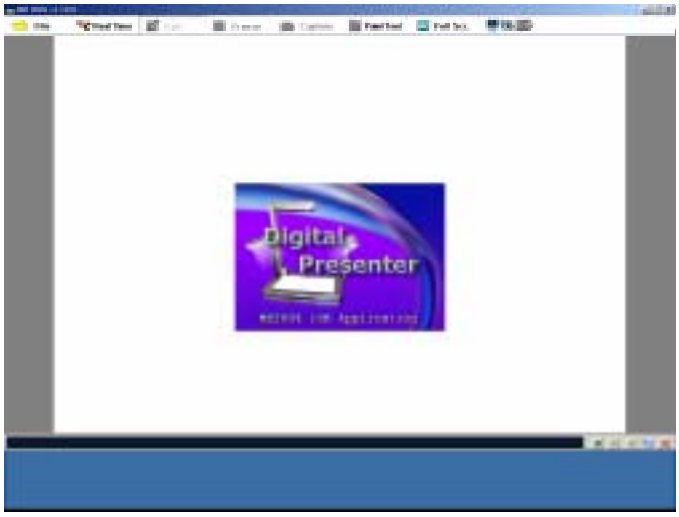
8. Please press Install to begin installation.

9. The installation is processing, if you would like to cancel, please press Cancel to stop installation.

MR2004 - InstallShield Wizard
Installing MR2004
The program features you selected are being installed.
Please wait while the InstallShield Wizard installs MR2004. This may take several minutes.
Status:
InstallShield
Cancel

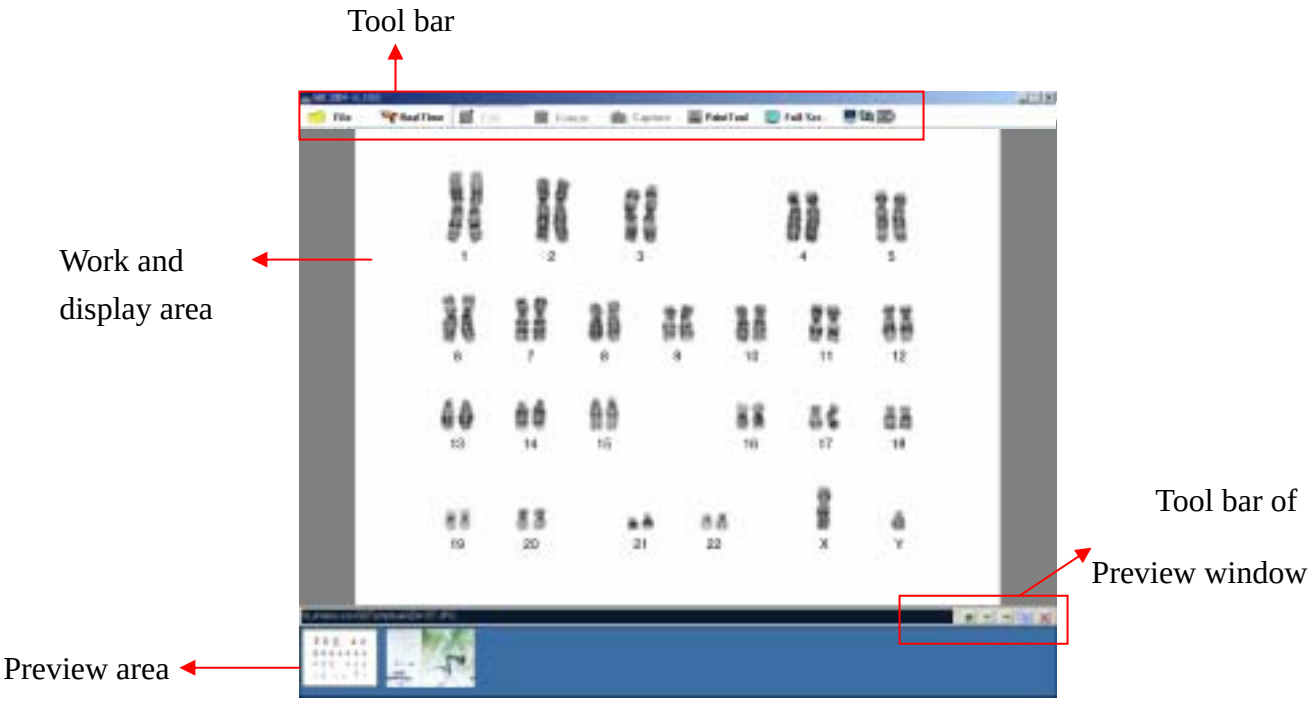
10. Please press Finish to complete the installation.

11. After installation, the MR2004 is launched automatically or you may go to the PC “Start”, and look at “All Programs” to find MR2004.



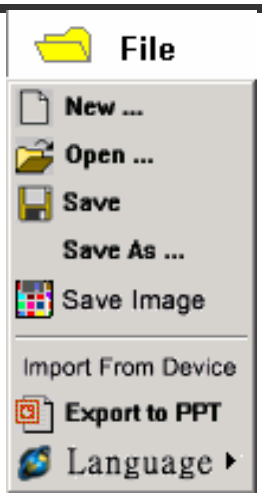
Functions

The basic window with the functional areas indicated follows:



The Tool Bar Functions are described.

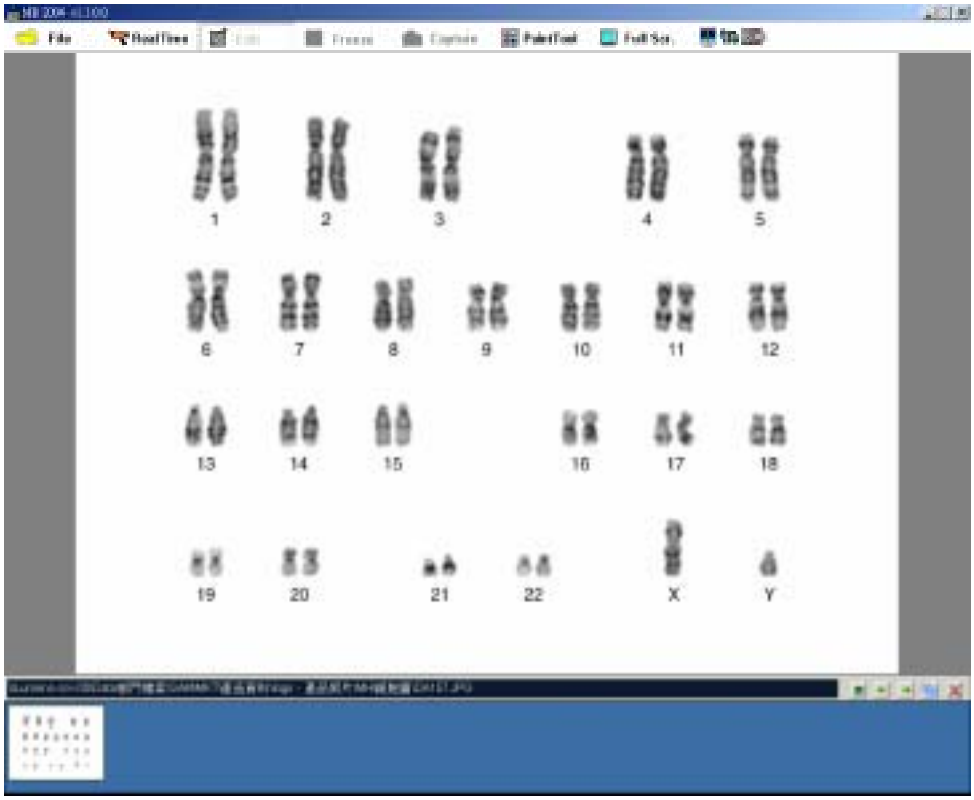
1. File



- **New**：Open new project(file format-- *.mr2)
- **Open**：Open old project in stored file
- **Save**：Save present edited project
- **Save As**：Save to be a new project or given file
- **Save Image**：Save reedited JPG image
- **Import From Device**：Import an image from memory device (Only for certin devices.)
- **Export to PPT**： Export the image to be Power Point file format
- **Language**：Select English, Traditional Chinese, Simplify Chinese user interface.

2. Real Time RealTime

One image can be imported from input device such as Document Camera. Available functions are Freeze, Capture, Paint tool and Full screen.



Notice：If the image can't be displayed normally in real time mode, please double check the connection between computer with camera.

3. Edit mode

Functions in this mode are File, Paint tool and Full screen.
The Freeze and capture are not available in edit mode.
The lower Preview window tool bar appears for the Edit mode.

4. Freeze

The image can be frozen in real time mode.

*(*This function is only available in real time mode)*

5. Capture

You can capture images which are saved as JPG files in the default folder **C:\Program File\MR2004\,**

(* This function is only available in real time mode.)

6. Paint and Annotation tool

This is a basic annotation or drawing tool, it can be used in real time and the edit mode, right click for tool, left click to mark any region in the image.

1. **Pointer**：Mouse pointer
2. **Laser**：Click "Laser" to show a spot on the screen
3. **Handwrite**：Click and drag to draw a line or annotate
4. **Line**：Click and drag to draw a line
5. **Ellipse**：Click and drag to draw a circle
6. **Rectangle**：Click and drag to draw a rectangle
7. **Eraser**：Click and drag to clear lines
8. **Clear all**：Clear all lines on the picture
9. **Color**：Choose the line color
10. **Thickness**：Choose thickness of lines. (1 to 99)

7. Full Screen

The image can be increased to full screen with the "full screen" function. It is available in Real time mode, and Edit mode.
Right -click on the picture and then the paint tool will appear.
Use "ESC" to return to normal size window.

In the "Edit Mode" the lower Preview Area images can be selected using the "Page Up" or "Page Down" button.

8.Import from device （ ）

This function does not operate with the Camera. Please ignor.

9. Image beforehand view tool

：Insert a picture from image file. Bring in picture from file.

：Change picture order in the sequence.

：Copy picture and save in a JPEG file.

：Delete picture。

Notice：The source image can’t be disconnected with “Delete Picture” function.

Operation

1 Choose Language：

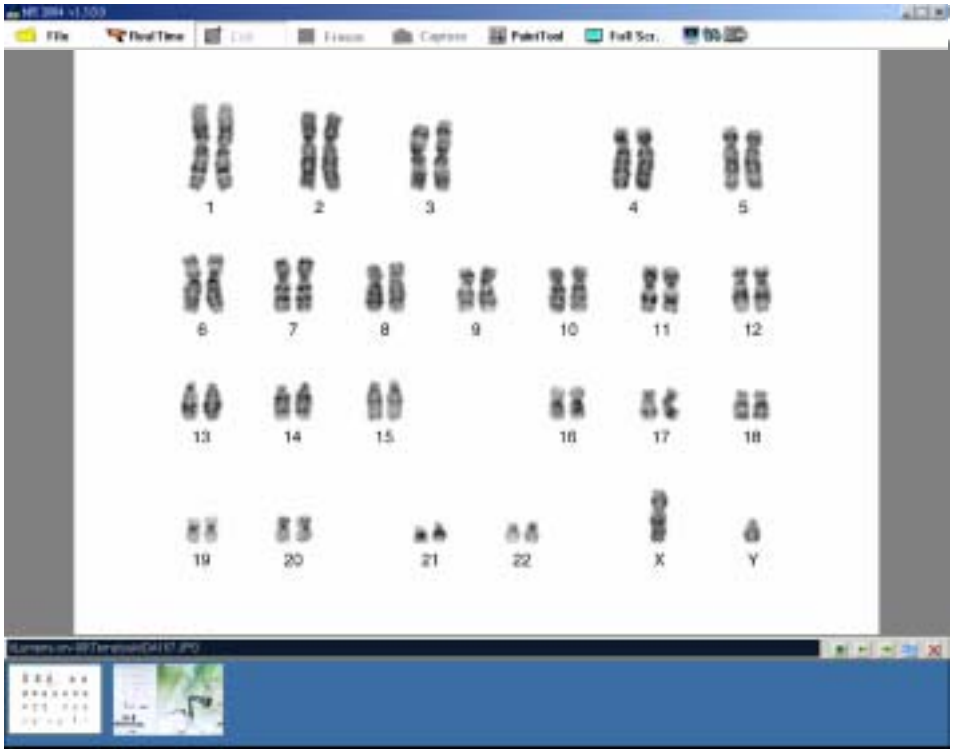
FILE → Language , there are 3 language for selection：English & Traditional-Chinese and Simplify-Chinese, please choose 「English」.

2 Display image：

2.1 Real Time Operation：Import a line image from Camera.

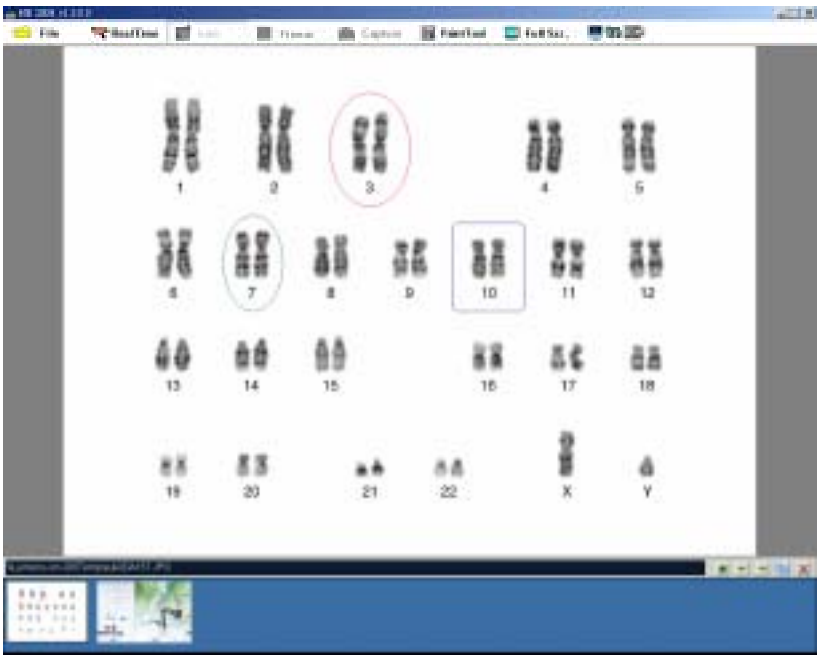
2.2 Import From Device,：Import images from Camera. May not always be operative.

2.3 **Edit model open old file,**：Use preview tool（ ）to open an old file in edit mode..

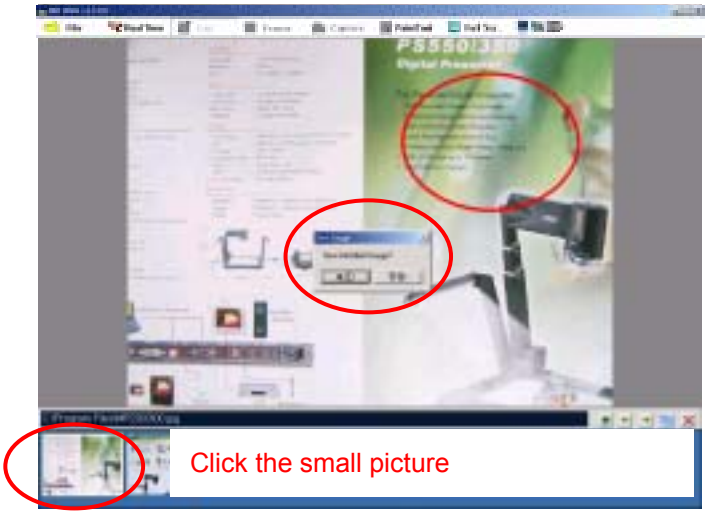


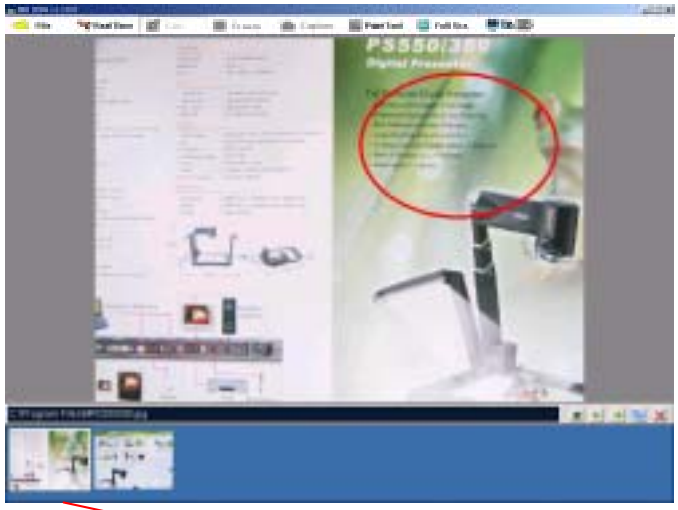
3 **Edit image：**

3.1 **Marking：**Click any tool in the paint tool menu to modiy the image.



3.2 **Edited and save**：After editing pictures, click the small picture icon in the preview area, and then save the picture.

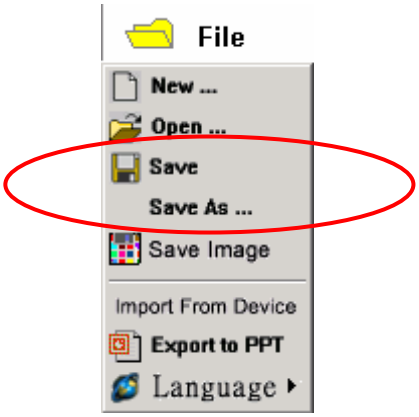




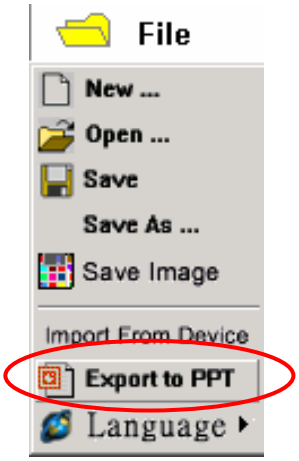
After

4 **Save**：

4.1 **Save MR2004 file**：Save as “*.m2” file format to C:\Program Files\MR2004



4.2 **Export to PPT format**：After editing and arranging images, the function can export to power point file.



Chapter 5 Troubleshooting

If none of the suggested solutions solves the
problem, call your dealer or your service center.

Problem 1: No picture from the Camera.

Solution -

1: Wait a few seconds, press desired source selector again.

2: Press a different source, then press-desired source again.

3: Check if the power is turned on. (Pilot Light On?)

4: Make sure the document or object is positioned under the camera.

5. If in USB operation disconnect and then reconnect the USB Cable

Problem 2: Cannot Focus, camera will not focus properly.

Solution - To properly focus: Move Camera head further away from object.
focus and then zoom out to desired distance.

Problem 3: Image is too bright or dark. Can not see desired part of the image because it is too bright or dark.

Solution – Adjust the BRT+/- Control Button on the remote control.

**** The updated information will be regularly released on the Dukane web site, please visit our web site http://www.dukcorp.com/av.***

Audio Visual Products

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